

What is claimed is:

1. A protocol analyzer for receiving data interactively transmitted between communication terminals through a communication line, for every frame, to analyze and output the data according to a format of the frame, the protocol analyzer comprising:

a storage section for storing the data in order received through the communication line, for every frame, therein;

an extension attribute addition section for reading the data in order stored in the storage section, for every frame, to set a notification flag in a state in a case wherein a transmission direction of the data is a predetermined direction and a frame type of the data is a predetermined frame type, and to add an extension attribute to the data in a case wherein the transmission direction of the data is an opposite direction to the predetermined direction and the notification flag is set in the state; and

an analysis section for analyzing and outputting the data in order stored in the storage section, for every frame, according to the format of the frame, in a case wherein the transmission direction of the data is the predetermined direction, and for deciding the frame type of the data according as the extension attribute is added to the data or not, to analyze and output the data according

to the format of the frame in a case wherein the transmission direction of the data is the opposite direction to the predetermined direction.

2. A protocol analyzing method of receiving data interactively transmitted between communication terminals through a communication line, for every frame, to analyze and output the data according to a format of the frame, the protocol analyzing method comprising the steps of:

storing the data in order received through the communication line, for every frame, in a storage section;

reading the data in order stored in the storage section, for every frame, to set a notification flag in a state in a case wherein a transmission direction of the data is a predetermined direction and a frame type of the data is a predetermined frame type, and to add an extension attribute to the data in a case wherein the transmission direction of the data is an opposite direction to the predetermined direction and the notification flag is set in the state; and

analyzing and outputting the data in order stored in the storage section, for every frame, according to the format of the frame, in a case wherein the transmission direction of the data is the predetermined direction, and deciding the frame type of the data according as the extension attribute is added to the data or not, to analyze

and output the data according to the format of the frame in a case wherein the transmission direction of the data is the opposite direction to the predetermined direction.

3. A storage medium having a computer-executable program recorded thereon, for receiving data interactively transmitted between communication terminals through a communication line, for every frame, to analyze and output the data according to a format of the frame, wherein the program comprises:

a program code of storing the data in order received through the communication line, for every frame, in a storage section;

a program code of reading the data in order stored in the storage section, for every frame, to set a notification flag in a state in a case wherein a transmission direction of the data is a predetermined direction and a frame type of the data is a predetermined frame type, and to add an extension attribute to the data in a case wherein the transmission direction of the data is an opposite direction to the predetermined direction and the notification flag is set in the state; and

a program code of analyzing and outputting the data in order stored in the storage section, for every frame, according to the format of the frame, in a case wherein the transmission direction of the data is the predetermined

direction, and deciding the frame type of the data according as the extension attribute is added to the data or not, to analyze and output the data according to the format of the frame in a case wherein the transmission direction of the data is the opposite direction to the predetermined direction.

4. A data signal transmitting a computer-executable program, wherein the data signal comprises:

a data block having a program of receiving data interactively transmitted between communication terminals through a communication line, for every frame;

a data block having a program of storing the data in order received through the communication line, for every frame, in a storage section;

a data block having a program of reading the data in order stored in the storage section, for every frame, to set a notification flag in a state in a case wherein a transmission direction of the data is a predetermined direction and a frame type of the data is a predetermined frame type, and to add an extension attribute to the data in a case wherein the transmission direction of the data is an opposite direction to the predetermined direction and the notification flag is set in the state;

a data block having a program of analyzing and outputting the data in order stored in the storage section,

for every frame, according to a format of the frame, in a case wherein the transmission direction of the data is the predetermined direction; and

a data block having a program of deciding the frame type of the data according as the extension attribute is added to the data or not, to analyze and output the data according to the format of the frame in a case wherein the transmission direction of the data is the opposite direction to the predetermined direction.

5. A computer program comprising program code means for performing the steps of:

receiving data interactively transmitted between communication terminals through a communication line, for every frame;

storing the data in order received through the communication line, for every frame, in a storage section;

reading the data in order stored in the storage section, for every frame, to set a notification flag in a state in a case wherein a transmission direction of the data is a predetermined direction and a frame type of the data is a predetermined frame type, and to add an extension attribute to the data in a case wherein the transmission direction of the data is an opposite direction to the predetermined direction and the notification flag is set in the state;

analyzing and outputting the data in order stored in the storage section, for every frame, according to a format of the frame, in a case wherein the transmission direction of the data is the predetermined direction; and

deciding the frame type of the data according as the extension attribute is added to the data or not, to analyze and output the data according to the format of the frame in a case wherein the transmission direction of the data is the opposite direction to the predetermined direction.

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